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Reflection preventing treatment liq. prep. for optical member - comprises hydrolysing silicic ester mixed with colloidal silica, mixing to milky white colloidal soln., adding hydrolysed alkylfluoridealkoxysilane, etc.

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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 5196802	A	19930806	JP 9210257	A	19920123	G02B-001/10	199336 B

Priority Applications (No Type Date): JP 9210257 A 19920123

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 5196802	A		8			

Abstract (Basic): JP 5196802 A

Prepn. comprises (1) hydrolysing a silicic ester of formula SiOR₄ (a) mixed with colloidal silica, (2) making into a colloidal soln. ie when it shows milky white colour (3) adding a hydrolysed cpd. of an alkyl fluoride alkoxy silane of formula F₃C-(CH₂)-aR₁Si(OR₂)₃ and (4) mixing with the reflection preventing treatment liq. formed in (2). In formulae, R is a 1-4C alkyl, alkoxyalkyl or acyl gp. R₁ is 1-4C alkylene, R₂ is 1-4C alkyl, alkoxy alkyl or acyl group and a is an integral number between 0 and 10.

Inorganic colloidal particles having a low refractive index are pref. further added and mixed with the above-mentioned reflection preventing treatment liq. A hydrolysed prod. of an organo alkoxy silane of formula R₁aSiR₂b(OR₃)_{4-a-b} (c) is pref. further added to the above-mentioned reflection preventing treatment liq. In (c) R₁ is 1-6C alkyl, vinyl, epoxy, methacryloxy, or phenyl gp; R₂ is 1-6C alkyl, or halogenated alkyl group, R₃ is 1-4C alkyl, alkoxyalkyl or acyl group, a or b are 0, 1 or 2, and 1 + b = 1, 2 or 3.

USE/ADVANTAGE - With this reflection preventing treatment liq. for an optical member, the hot water resistance and anti-fouling capacity of reflection preventing treatment film is improve

Dwg.O/O

Title Terms: REFLECT; PREVENT; TREAT; LIQUID; PREPARATION; OPTICAL; MEMBER; COMPRIZE; HYDROLYSIS; SILICIC; ESTER; MIX; COLLOID; SILICA; MIX; MILK; WHITE; COLLOID; SOLUTION; ADD; HYDROLYSIS; ALKYL; FLUORIDE; ALKOXY; SILANE

Derwent Class: A82; E11; G02; L01; P81

International Patent Class (Main): G02B-001/10

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A06-A00E1; A06-A00E4; A12-L03; E05-E02D; E31-P03; G02-A05; L01-G04D; L01-L05

Plasdoc Codes (KS): 0149 0152 0155 0207 0210 0218 0230 0231 1303 1306 1971 2096 2147 2152 2179 2375 2501 2592 2718 2851

Polymer Fragment Codes (PF):

001 017 04& 04- 040 05- 062 064 08& 10- 17& 17- 229 230 244 344 346 38- 397 423 477 516 521 55- 649 679

Chemical Fragment Codes (M3):

01 B114 B702 B720 B831 C108 C800 C802 C803 C804 C805 C807 M411 M782 M903 M904 M910 Q452 R023 R01694-M

02 B414 B713 B720 B741 B793 B799 B831 H581 H582 H583 H584 H601 H608 H609 H684 H685 H689 L660 L699 M210 M211 M212 M213 M214 M215 M216 M220 M221 M222 M223 M224 M225 M226 M231 M232 M233 M262 M272 M281

M282 M283 M311 M312 M313 M314 M315 M316 M320 M321 M322 M323 M331
M332 M333 M340 M342 M344 M361 M383 M391 M392 M393 M411 M510 M520
M530 M540 M620 M782 M903 M904 Q452 R023 9336-B6001-M

Polymer Indexing (PS):

<01>

001 017; G2277-R G2266 D01 Si 4A D11 D10 D50 D69 F87 D63 F- 7A D84 D85
D86 D87 D88 D89 D90 D91 D92 D93 D95 D12 D53 D51 D59 D42 D31 D32 D23
D22 D19 D18 F47 F86; P1445-R F81; L9999 L2528 L2506; H0011-R; S9999
S1014-R; L9999 L2313

002 017; Q9999 Q7114-R; Q9999 Q8264-R; B9999 B4400-R B4240; ND01; ND03;
K9483-R; K9676-R; K9745-R; N9999 N5947

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